

## Job Title: Fire Engineer

Department: Fire

Immediate  
Supervisor: Fire Captain

Origination Date:	07/01/2001
Revision Date:	10/30/2014
Job Grade	763
FLSA Status	Non-Exempt

### **BRIEF DESCRIPTION OF THE JOB:**

Ensures the safe response of firefighting apparatus and equipment. Participates in Emergency Medical Services (EMS), rescue operations, and fire suppression. Supports fire companies at the scene of emergency incidents.

### **ESSENTIAL FUNCTIONS:**

*This information is intended to be descriptive of the key responsibilities of the position. The following examples do not identify all duties performed by any single incumbent.*

Physical Strength Code		ESSENTIAL FUNCTIONS
1	VH	Performs fire suppressions, EMS duties, and drives a fire apparatus (fire engine, ladder truck or special unit) to and from fires, drills, EMS incidents, and routine assignments. Responsible for maintenance of apparatus and related equipment.
2	VH	Responds to emergency medical calls by evaluating situations, vehicle extrication, rescuing victims, providing emergency and non-emergency medical procedures.
3	L	Enforces fire code and educates the public by inspecting buildings, checking complaints, investigating fires, inspecting smoke detectors, conducting fire drills, attending public gatherings to ensure observance of fire safety requirements, conducting station tours, and making school presentations.
4	M	Completes other duties by participating in training, maintaining vehicles, updating maps, repairing equipment, cleaning the station and grounds, making presentations, ordering supplies, inputting and tracking fire incidents, and preparing reports.

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## **JOB REQUIREMENTS:**

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Formal Education / Knowledge	Work requires knowledge of a specific vocational, administrative, or technical nature that may be obtained with six months/one year of advanced study or training past the high school equivalency. Junior college, vocational, business, technical or correspondence schools are likely sources. Appropriate certification may be awarded upon satisfactory completion of advanced study or training.
Experience	Minimum of two years full-time experience as a firefighter and one year experience with the Goodyear Fire Department.
Certifications and Other Requirements	<ul style="list-style-type: none"><li>• Valid Arizona Class D Driver's License</li><li>• State of Arizona Certified Firefighter I and II</li><li>• Completion of Fire Apparatus (FSC117) and Fire Hydraulics (FSC118) by the recruitment testing date.</li><li>• State of Arizona Certified Emergency Medical Technician or Paramedic</li><li>• State of Arizona Hazardous Materials First Responder operations level</li><li>• Successful completion of Engineer Training Program acceptable to the Goodyear Fire Department.</li></ul>
Reading	Work requires the ability to read general correspondence, manuals, maps, and information with medical terminology and abbreviations.
Math	Work requires the ability to perform general math calculations such as addition, subtraction, multiplication, division, and fireground calculations.
Writing	Work requires the ability to write general correspondence, request forms, and reports.
Managerial	Job has not responsibility for the direction or supervision of others but may provide advice/direction to an employee with less experience/skill or tenure.
Policy/Decision Making	Significant - The employee normally performs the job by following established standard operating procedures and/or policies. There is a choice of the appropriate procedure or policy to apply to duties. More complex work as well as decisions with more significant impacts may be reviewed prior to being finalized.
Technical Skills	Comprehensive Application - Work requires a comprehensive, practical knowledge of a technical field with use of analytical judgment and decision-making abilities.
Interpersonal / Human Relations Skills	Moderate - Interactions may involve support of controversial positions or the negotiation of sensitive issues or important presentations. Contacts may also involve stressful, negative interactions requiring high levels of tact and the ability to respond to aggressive interpersonal interactions.

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## OVERALL PHYSICAL STRENGTH DEMANDS:

Sedentary	Light	Medium	Heavy X	Very Heavy
S = Sedentary Exerting up to 10 lbs. occasionally or negligible weights frequently; sitting most of the time	L = Light Exerting up to 20 lbs. occasionally, 10 lbs. frequently, or negligible amounts constantly OR requires walking or standing to a significant degree.	M = Medium Exerting 20-50 lbs. occasionally, 10-25 lbs. frequently, or up to 10 lbs. constantly.	H = Heavy Exerting 50-100 lbs. occasionally, 25-50 lbs. frequently, or up to 10-20 lbs. constantly.	VH = Very Heavy Exerting over 100 lbs. occasionally, 50-100 lbs. frequently, or up to 20-50 lbs. constantly.

## PHYSICAL DEMANDS:

C = Continuously 2/3 or more of the time.	F = Frequently From 1/3 to 2/3 of the time.	O = Occasionally Up to 1/3 of the time.	R = Rarely Less than 1 hour per week.	N = Never Never occurs.
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*This is a description of the way this job is currently performed; it does not address the potential for accommodation.*

PHYSICAL DEMANDS	FREQUENCY CODE	DESCRIPTION
Standing	C	During drills, inspections, community events, 911 calls
Sitting	O	Computer, desk work, dinner, lunch, driving
Walking	C	Inter-station, off site, inspections, events
Lifting	O	People, equipment, fire debris
Carrying	O	People, equipment, fire debris
Pushing/Pulling	O	Gurneys, people, cars, equipment
Reaching	F	Tools, people, equipment and gear, fire hose
Handling	C	Equipment, computers, patients
Fine Dexterity	C	Driving, operating fire department apparatus and equipment, computer keyboard, MCTs, performing BLS/ALS skills, equipment maintenance
Kneeling	F	Evaluating patients, inspections
Crouching	F	Evaluating patients, inspections
Crawling	O	Gaining access to victims, in fires under smoke/heat
Bending	C	Emergency calls, rescues, picking up equipment
Twisting	C	Emergency calls, rescues, picking up equipment
Climbing	O	Ladders, mountains, hills, stairs
Balancing	F	Hose line, ladders, equipment
Vision	C	Equipment use, searching for victims, driving, inspections, computer, desk work, writing, reading
Hearing	C	Dispatching information, listening for victims, telephone, radio, co-workers, staff, supervisor, general public, training
Talking	C	Dispatching information, listening for victims, telephone, radio, co-workers, staff, supervisor, general public, training
Foot Controls	O	Operating vehicles and equipment
Other(specify)	O	Positioning aerial ladder device and other apparatus at emergency scenes

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## **MACHINES, TOOLS, EQUIPMENT, AND WORK AIDS:**

Adapters/appliances, air bags, air chisel equipment, auto lockout kit, electrical equipment, flares, gas meters, hay hooks, hoses, hydraulic rescuing tool, irons (bolt cutters, prying tools, sledge hammer) ladders, loss control equipment, McLeod, Pulaski, pressure fans, pistol grip ball valve shut-off, piercing nozzle, plug & dike, pike poles, power winch, saws, self contained breathing apparatus, safety harness, shovels, small hand tools, snake tongs, stortz, utility rope, combination spanner & hydrant wrench with bracket set, I.V. catheter, I.V. tubes, needles, bandages, alcohol pads, razors, syringes, tape, glucose tests and strips, lancets, OPA's, blankets, suction catheters, thermometers, collars, splints, forceps, ambu-bag, larynxscope, stretcher, telephone, computer, standard Microsoft Windows and Office software, Phoenix Fire Department Record Management Systems (RMS), Records Management System (RMS), Mobile Computing Terminal, and Internet.

## **ENVIRONMENTAL FACTORS:**

D = Daily	W = Several Times Per Week	M = Several Times Per Month	S = Seasonally	N = Never
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HEALTH AND SAFETY		ENVIRONMENTAL FACTORS	
Mechanical Hazards	D	Dirt and Dust	D
Chemical Hazards	D	Extreme Temperatures	D
Electrical Hazards	D	Noise and Vibration	D
Fire Hazards	D	Fumes and Odors	D
Explosives	D	Wetness/Humidity	D
Communicable Diseases	D	Darkness or Poor Lighting	D
Physical Danger or Abuse	D		
Other			

PRIMARY WORK LOCATION	
Office Environment	X
Warehouse	
Shop	
Vehicle	X
Outdoors	X
Other	

WORK SCHEDULE POSSIBILITIES	
Rotating Shift Work	X
24 Hour Shift Work	X
Work on Holidays	X
Work on Weekends	X
Typical 40 Hour Work Week	
Overtime	X
On Call/Call Out	X

## **PROTECTIVE EQUIPMENT REQUIRED:**

Turnout coats and pants, helmet, nomex hood, fire and leather gloves, self contained breathing apparatus, rubber gloves, eye protection, Tyvek suits and sleeves, fanny pack, brush helmet, nomex brush shirt and pants, brush shoes, web gear, fire shelter, water canteens, Hepa masks.

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## **NON-PHYSICAL DEMANDS:**

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NON-PHYSICAL DEMANDS	
Time Pressures	F
Emergency Situations	F
Frequent Change of Tasks	F
Irregular Work Schedule/Overtime	F
Performing Multiple Tasks Simultaneously	F
Working Closely with Others as Part of a Team	C
Tedious or Exacting Work	F
Noisy/Distracting Environment	F
Other	

## **EXPECTED BEHAVIOR:**

### **Staff – Expected Behavior**

The employee is expected to embrace, support, and promote the City's values, beliefs, and culture, which include but are not limited to the following:

- ◆ High ethical standards
- ◆ Active participation in teamwork
- ◆ Strong safety principles and safety awareness
- ◆ Active participation in citywide activities

These traits are not basic job requirements but are expected behavior. Other duties and responsibilities will be performed as assigned.

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## **SIGNATURES—REVIEW AND COMMENT:**

I have reviewed this job analysis and its attachments and find it to be an accurate description of the demands of this job.

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Signature of Employee

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Date

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Job Title of Supervisor

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Signature of Supervisor

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Date

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Job Title of Department Director

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Signature of Department Director

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Date

**Comments:** \_\_\_\_\_

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The above statements are intended to describe the general nature and level of work being performed by individuals assigned to this job. They are not intended to be an exhaustive list of all responsibilities, duties, and skills required of personnel so classified in this position. This job description is subject to change as the needs and requirements of the job change.